ELSEVIER

Volume 201, Numbers 1–2, 15th December 1996

WEAR

Contents

Influence of topography on the running-in of water-lubricated silicon carbide journal bearings 1
P. Andersson, J. Juhanko (Espoo, Finland), A.-P. Nikkilä, P. Lintula (Tampere, Finland)

The nature of the lubricating films formed by carbon tetrachloride under conditions of extreme pressure 10
P.V. Kotvis, J. Lara, K. Surerus, W.T. Tysoe (Milwaukee WI, USA)

The effect of operating conditions on heavy duty engine valve seat wear 15
Y.S. Wang, S. Narasimhan, J.M. Larson, J.E. Larson (Marshall, MI, USA), G.C. Barber (Rochester, MI, USA)

Tribological behaviour of yttria-stabilised zirconia under dry sliding conditions when tested against itself and grey automotive cast iron 26
M. Terheci, J. Nanos, H. Giannakoudaris, S. Abanteriba (Melbourne, Vic., Australia)

Characteristic features of wear in tools made of high-speed steels with surface engineered coatings I. Wear characteristics of surface engineered high-speed steel cutting tools 38
G.S. Fox-Rabinovich, A.I. Kovalev, S.N. Afanasyev (Moscow, Russian Federation)

Rubber supported hydrostatic thrust bearings with elastic bearing surfaces of infinite length 45
A.v. Beek, L. Lepic (Delft, The Netherlands)

Wear mechanisms of zirconia/steel reciprocating sliding couple under water lubrication 51
H. Liu, Q. Xue (Lanzhou, China)

Pressure and temperature dependence of the density of liquid lubricants 58
P.L. Wong, R. Wang, S. Lingard (Kowloon, Hong Kong)

Erosion rate prediction and correlation technique for ceramic surfaces exposed to high speed flows of abrasive suspensions 64
Y.F. Khalil, D.E. Rosner (New Haven, CT, USA)

Mathematical approach of the influencing factors on stick–slip induced by decelerative motion 80
F. Van De Velde, P. De Baets (Gent, Belgium)

Effect of two-phase liquid lubricant on fatigue life 94
S. Baoyu, W. Liqin, Q. Yulin (Harbin, China)

Effects of antiwear additives on the friction and wear of Si_3N_4/steel sliding contacts 99
X. Zhao, J. Liu, B. Zhu, H. Miao, Z. Luo (Beijing, People's Republic of China)

Spall initiation and propagation due to debris denting 106
G. Xu, F. Sadeghi (West Lafayette, IN, USA)

Cutting temperature responses to flank wear 117
H.-T. Young (Taipei, Taiwan)

The effect of impact and continuous scratches on the corrosive wear behavior of Fe–18%Cr–5%Ni alloy and 304 stainless steel for two grain sizes 121
S.K. Varma, R.R. Romero (El Paso, TX, USA)

Abrasive wear of aluminium composites—a review 132
R.L. Deuis, C. Subramanian, J.M. Yellup (Adelaide, SA, Australia)

Sliding wear tests of stainless steel couples in water at high temperature, high sliding speed and high load 145
N. Saito (Yokohama-shi, Japan), Y. Hemmi (Kawasaki-shi, Japan), T. Arima, M. Oishi (Yokohama-shi, Japan), M. Hosokawa (Tokyo, Japan)

The "self-lubrication" by hydrogen during dry friction of hardened surface layers 155
P. Kula (Lodz, Poland)

Elsevier Science S.A.

Degradations in a high-speed sliding contact in transient regime 163
O. Lesquois, J.J. Serra (Arcueil, France), P. Kapsa (Ecully, France), S. Serror, C. Boher (Arcueil, France)

The fretting behaviour of PVD TiN coatings in aqueous solutions 171
P.-Q. Wu, H. Mohrbacher, J.-P. Celis (Leuven, Belgium)

Effect of whisker orientation on the friction and wear behaviour of $Al_2O_3/TiB_2/SiC_w$ composites in sliding wear tests and in machining processes 178
J. Deng, X. Ai, J. Zhang (Jinan, People's Republic of China)

Roughness measurement by confocal microscopy for brightness characterization and surface waviness visibility evaluation..... 186
P. Sandoz, G. Tribillon, T. Gharbi, R. Devillers (Besançon, France)

Evaluation of mechanical and wear properties of potassium acid titanate whisker-reinforced copper matrix composites formed by hot isostatic pressing 193
R. Murakami (Tokushima, Japan), K. Matsui (Fukuoka, Japan)

Transitions in wear mechanisms of alumina cutting tools..... 199
G.K.L. Goh, L.C. Lim, M. Rahman, S.C. Lim (Singapore, Singapore)

The effect of steel hardness on the performance of antiwear additives 209
J.S. Sheasby, T.A. Caughlin, W.A. Mackwood (London, Ontario, Canada)

A study on lubrication mechanism and wear scar in sliding circular contacts 217
W.-F. Kuo, Y.-C. Chiou, R.-T. Lee (Kaohsiung, Taiwan)

Friction against superplastic aluminium alloys 227
Z. Chen, P.F. Thomson (Clayton, Vic., Australia)

Tribological performance evaluation of tungsten carbide-based cermets and development of a fracture mechanics wear model..... 233
R.B. Bhagat, J.C. Conway, . Jr, M.F. Amateau, R.A. Brezler III (State College, PA, USA)

Gross plastic fretting mechanical deterioration of silver coated electrical contacts 244
Å.K. Rudolphi, S. Jacobson (Uppsala, Sweden)

Gross plastic fretting—examination of the gross weld regime..... 255
Å. Kassman Rudolphi, S. Jacobson (Uppsala, Sweden)

How to obtain stiffness and damping coefficients of gas bearings 265
K. Czołczyński (Łódź, Poland)

Author Index of Volume 201 277

Subject Index of Volume 201 279

The publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. A leaflet describing our requirements is available from the publisher upon request.